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STATE OF MONTANA

BULLETIN

OF THE

Department of Public Health

Vol. 6

September 15, 1913

No. 6

MONTANA STATE BOARD OF HEALTH

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EMIL STARZ, Ph. D.
State Bacteriologist,

ALLAN TUFFORD,
Consulting Architect.

M. L. MORRIS,
Consulting Sanitary Engineer.

HELENA, MONTANA.

Published Monthly at Helena, by the State Board of Health.

"The science of disease prevention, if properly applied, can add fifteen years to the present average length of human life."—Prof. Irving Fisher, Yale.

This Bulletin will be mailed monthly to any person in Montana upon request mailed to the Secretary of the State Board of Health at Helena.



Parmly Billings Memorial Library

TYPHOID FEVER.

An analysis of typhoid fever cases reported to this office during the past two months indicates that the house fly is one of the important factors in the spread of this disease. A few cases have been traced to a contaminated water supply, but these cases are the exception rather than the rule.

Another fact to be considered is the part that a "typhoid carrier" plays in the spread of this disease. This can best be explained by citing two cases.

Two cases of typhoid fever reported from Park county were investigated by the Secretary of the State Board of Health and the County Health Officer. In these instances typhoid fever developed on a ranch where there had never been a case of typhoid before. The water was taken from a spring and subsequent analysis showed it to be pure. The water closet on this ranch was an open one, and freely exposed to flies. In questioning the hired help we found that a boy who had suffered from the disease last summer had been employed upon this ranch since early Spring. The fact that this disease occurred at the beginning of the fly season would point to the possibility of this boy being a typhoid carrier and the flies being the agents carrying this disease.

The second group of cases occurred in a logging camp in Lincoln county. On investigation this camp was found to have apparently a good water supply, was well located, but had an abundance of flies and in this case an open water closet was provided, freely accessible to flies and but a short distance from the kitchen and dining tent. In this case it was found that one of the men had had typhoid fever last year. In both these cases the probabilities are that the cause of the disease was the typhoid carrier, plus the fly.

It would have been very interesting to have been able to have either proved or disproved our suspicions in these cases, but at the present time in the State of Montana, we have no law for the control of typhoid carriers. It seems to me that this feature should be given consideration with a view for future legislation whereby we may be able to make examination of suspected typhoid carriers, and with a view to their control when the results of such examinations are found positive. These cases at any rate, emphasize the importance of having water closets not only in towns and camps, but on

ranches, thoroughly screened against flies. It also emphasizes the importance of waging a warfare against the fly. We are trying in all possible ways to keep our streams pure and to see that the water supplies in our towns are free from the possibility of contamination, but the great fight in the future will be against the common house fly. Swat the fly!

It is with pleasure that this department announces that Dr. Tuttle, who has for years been a sufferer from duodenal ulcer, was recently successfully operated upon and is now enjoying better health than he has for years.

In the last issue of the Bulletin, nine formaldehydes in milk were recorded in this department. These cases have been prosecuted and nine convictions have been secured, fines ranging from ten to fifty dollars.

On the 10th of September an anonymous letter from Spokane, stating that a carload of poultry, which had been condemned by the Spokane health authorities, as unfit for use, had been shipped to this state, probably Butte. The Butte health officer was asked to look into this question, and in his usually vigorous and effective manner he did so. He has reported to this office that he found the carload of tainted poultry in the warehouse of Henningsen Produce Company, Butte, and that he condemned it and had it sent to the city dump and burned.

If a man can build a better house, write a better book, or make a better mouse trap than his neighbor, though he make his home in the wilderness, the world will make a beaten track to his front door.—Emerson.

IF.

(From Rewards and Fairies by Rudyard Kipling.)

If you can keep your head when all about you
Are losing theirs and blaming it on you;
If you can trust yourself when all men doubt you,
But make allowance for their doubting too;
If you can wait and not be tired by waiting,
Or being lied about don't deal in lies,
Or being hated don't give way to hating,
And yet don't look too good, nor talk too wise;

If you can dream—and not make dreams your master;
If you can think—and not make thoughts your aim;
If you can meet with Triumph and Disaster
And treat those two impostors just the same;
If you can bear to hear the truth you've spoken
Twisted by knaves to make a trap for fools,
Or watch the things you gave your life to, broken,
And stoop and build them up with worn-out tools;

If you can make one heap of all your winnings
And risk it on turn of pitch-and-toss,
And lose, and start again at your beginnings,
And never breathe a word about your loss;
If you can force your heart and nerve and sinew
To serve your turn long after they are gone,
And so hold on when there is nothing in you
Except the Will which says to them: "Hold on!"

If you can talk with crowds and keep your virtue,
Or walk with Kings—nor lose the common touch;
If neither foes nor loving friends can hurt you;
If all men count with you, but none too much;
If you can fill the unforgiving minute
With sixty seconds' worth of distance run,
Yours is the Earth and everything that's in it,
And—which is more—you'll be a Man, my son!

Knew What He Wanted.

(Chicago Tribune.)

"Have you got any of this new kind of whiskey that won't make a man drunk?"

"Yes, sir."

"Well, give me a quart of the other kind."

Had His Work Cut Out.

Grace, aged 5, had twin brothers a year older than herself, who were mischievous.

"Papa," she said one day, "every night when Harry and Willie say their prayers they ask God to make them good boys."

"Thats nice," replied the father.

"Well," queried the little skeptic, "why don't He?"

COMMUNICABLE DISEASES REPORTED TO THE
STATE BOARD OF HEALTH, FOR THE MONTH
OF AUGUST, 1913.

SMALLPOX—Broadwater, 2; Cascade (Excl. of Great Falls), 6; Great Falls, 1; Chouteau, 1; Dawson, 1; Flathead (Excl. of Kalispell), 1; Kalispell, 1; Hill, 1; Powell, 2; Sheridan, 1; Silver Bow, (Excl. of Butte), 9; Butte, 1; total, 27; total last month, 59.

DIPHTHERIA—Broadwater, 2; Carbon, 1; Dawson, 3; Anaconda, 1; Flathead (Excl. of Kalispell), 1; Hill, 1; Lewis and Clark (Excl. of Helena), 1; Helena, 1; Missoula City, 1; Ravalli, 3; Sanders, 1; Silver Bow (Excl. of Butte), 1; Teton, 1; Yellowstone (Excl. of Billings), 1; total, 19; total last month, 9.

SCARLET FEVER—Beaverhead, 2; Great Falls, 2; Custer, 2; Anaconda, 1; Fergus, 1; Bozeman, 1; Jefferson, 1; Lewis and Clark (Excl. of Helena), 5; Powell, 1; Silver Bow (Excl. of Butte), 2; Butte, 5; total, 23; total last month, 50.

TYPHOID FEVER—Blaine, 1; Big Horn, 1; Carbon, 1; Cascade, (Excl. of Great Falls), 4; Great Falls, 4; Custer, 3; Dawson, 2; Fergus, 6; Flathead, (Excl. of Kalispell), 5; Kalispell, 3; Bozeman, 1; Hill, 4; Chouteau, 1; Lewis and Clark, (Excl. of Helena), 2; Helena, 4; Lincoln, 2; Madison, 2; Missoula City, 1; Musselshell, 1; Livingston, 4; Sheridan, 1; Billings, 6; total, 59; total last month, 54.

MEASLES—Anaconda, 1; Fergus, 13; Gallatin (Excl. of Bozeman), 1; Missoula County, 2; Powell, 5; Butte, 1; Teton, 2; total, 25; total last month, 59.

TUBERCULOSIS—Blaine, 2; Sanatorium, 4; Flathead, 1; Hill, 1; Meagher, 2; Missoula (Excl. of Missoula City), 5; total, 15; total last month, 13.

ANTERIOR POLIOMYELITIS—Dawson, 1; total, 1; last month, 0.

CEREBRO SPINAL MENINGITIS—Broadwater, 1; Missoula City, 1; total, 2; total last month, 2;

WHOOPIING COUGH—Butte, 2; total, 2; total last month, 18.

**DEATHS EXCLUSIVE OF STILLBIRTHS, REPORTED TO THE STATE
BOARD OF HEALTH FOR THE MONTH OF AUGUST, 1913,
ARRANGED ACCORDING TO COUNTIES AND CITIES.**

| | Totals | All Other Causes | Alcoholism | Suicide | Violence | Acute Intestinal Diseases | Malignant Tumors | Organic Heart Disease | Nephritis | Pneumonia | Whooping Cough | Meningitis | Typhoid Fever | Measles | Scarlet Fever | Diphtheria | Tuberculosis | Small Pox | Spotted Fever |
|----------------------------|--------|------------------|------------|---------|----------|---------------------------|------------------|-----------------------|-----------|-----------|----------------|------------|---------------|---------|---------------|------------|--------------|-----------|---------------|
| Beaverhead | 6 | 2 | 1 | 1 | | | | | | | | | 1 | 1 | | | | | |
| Broadwater | 9 | 1 | 4 | | | | | | | | | | | | | | | | |
| Carbon | 6 | 7 | | | | | | | 1 | 1 | | | | | | | | | |
| Cascade (Excl. of) | 32 | 13 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | | 1 | | | | |
| Great Falls | 15 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 1 | 1 | | | | | | | 3 | | |
| Chouteau | 5 | 14 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| Custer | 14 | 6 | 6 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| Dawson | 9 | 15 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| Deer Lodge (Excl. of) | 11 | 8 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 3 | | | |
| Anaconda | 8 | 3 | 5 | 4 | 1 | | | | | 1 | | | | | | 1 | | | |
| Fergus | 3 | 12 | 5 | 5 | 1 | | | | 1 | 1 | | | | | | | | | |
| Flathead (Excl. of) | 1 | 1 | 5 | 5 | 4 | | | | 2 | 1 | | | | | | | | | |
| Kalispell | 3 | 1 | 5 | 5 | 1 | 1 | 1 | | 1 | 1 | | | | | | | | | |
| Gallatin (Excl. of) | 1 | 9 | 5 | 5 | 2 | 2 | | | 1 | 1 | | | | | | | 1 | | |
| Bozeman | 3 | 1 | 5 | 5 | | | | | 1 | 1 | | | | | | | | 1 | |
| Granite | 1 | 9 | 1 | 1 | | | | | | | | | | | | | | | |
| Jefferson | 3 | 6 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | |
| Lewis and Clark (Excl. of) | 20 | 11 | 2 | | | | | | 1 | | | | | | 1 | | | | |
| Helena | 3 | 1 | | | | | | | 3 | 3 | | | | | | | | | |
| Lincoln | 3 | 1 | | | | | | | | | | | | | | | | | |
| Madison | 7 | 1 | | | | | | | 1 | | | | | | | | | | |
| Meagher | 4 | 1 | | | 4 | | | | 1 | | | | | | | 1 | | | |
| Missoula (Excl. of) | 2 | 4 | | | 1 | | | | | | | | | | | | | | |
| Missoula City | 16 | 8 | 2 | 2 | 3 | 3 | | | 2 | 1 | | | | | | 1 | | | |
| Musselshell | 6 | 1 | 1 | 1 | 2 | 2 | | | 1 | | | | | | | | | | |
| Park (Excl. of) | 3 | 1 | | | | | | | | | | | | | | | | | |
| Livingston | 3 | 5 | 2 | | | | | | 1 | | | | | | | | | | |
| Powell | 6 | 1 | 5 | | | | | | 1 | | | | | | | | | | |
| Ravalli | 15 | 3 | 1 | 1 | 1 | 3 | 1 | | 1 | 4 | | | | | | | | 2 | |
| Rosebud | 3 | 2 | | | | | | | | | | | | | | | | | |
| Sanders | 5 | 2 | | | | | | | | | | | | | | | | | |
| Silver Bow (Excl. of) | 27 | 7 | 1 | 1 | 3 | 2 | 2 | 3 | 3 | 4 | | | | | | 1 | | | |
| Butte | 61 | 26 | 1 | 1 | 7 | 3 | 7 | 4 | 5 | 4 | 3 | 2 | | | | 4 | | | |
| Sweet Grass | 2 | 8 | | | | | | | | | | | | | | | | | |
| Teton | 15 | 3 | | | | | | | | | | | | | | 1 | | | |
| Valley | 3 | | | | | | | | | | | | 1 | | | | | | |
| Yellowstone (Excl. of) | 6 | | | | 3 | | | | | | | | | | | | | | |
| Billings | 10 | 9 | | | 2 | | | | 1 | 1 | | | | | | 1 | | | |
| Blaine | 3 | 1 | | | 1 | | | | | | | | | | | | | | |
| Big Horn | 2 | | | | | | | | | | | | | | | | | | |
| Hill | 10 | 1 | | | | 1 | | | 1 | 3 | | | | | | 1 | | | |
| Sheridan | 9 | 6 | | | 2 | | | 1 | | | | | | | | | | | |
| Stillwater | | | | | | | | | | | | | | | | | | | |
| TOTALS | 400 | 177 | 7 | 15 | 57 | 16 | 11 | 32 | 18 | 19 | 4 | 4 | 4 | 3 | 2 | 2 | 29 | 2 | 2 |

Stillbirths, 20.

Estimated population 375,000

Monthly death rate, per 1,000 population 1.04

Annual death rate, per 1,000 population 12.48

**BIRTHS, EXCLUSIVE OF STILLBIRTHS*, REPORTED TO THE STATE
BOARD OF HEALTH FOR THE MONTH OF AUGUST, 1913, AND
COMPARATIVE BIRTH AND DEATH RECORD.**

| | Males. | Females..... | Totals. | Deaths. | Excess of Deaths. | Excess of Births. |
|----------------------------------|------------|--------------|------------|------------|-------------------|-------------------|
| Beaverhead | 6 | 1 | 7 | 6 | 1 | .. |
| Broadwater | 2 | 3 | 5 | 2 | 3 | .. |
| Carbon | 16 | 11 | 27 | 9 | 18 | .. |
| Cascade (Excl. of) | 12 | 12 | 24 | 6 | 18 | .. |
| Great Falls | 34 | 25 | 59 | 32 | 27 | .. |
| Chouteau | 5 | 5 | 10 | 5 | 5 | .. |
| Custer | 16 | 14 | 30 | 14 | 16 | .. |
| Dawson | 11 | 21 | 32 | 15 | 17 | .. |
| Deer Lodge (Excl. of) | ... | 1 | 1 | 11 | ... | 10 |
| Anaconda | 10 | 13 | 23 | 8 | 15 | .. |
| Fergus | 21 | 9 | 30 | 8 | 22 | .. |
| Flathead (Excl. of) | 6 | 8 | 14 | 12 | 2 | .. |
| Kalispell | 10 | 10 | 20 | 7 | 13 | .. |
| Gallatin (Excl. of) | 9 | 6 | 15 | 3 | 12 | .. |
| Bozeman | 8 | 10 | 18 | 3 | 15 | .. |
| Granite | 4 | 2 | 6 | 1 | 5 | .. |
| Jefferson | 4 | 2 | 6 | 9 | ... | 3 |
| Lewis and Clark (Excl. of) | ... | ... | ... | 3 | ... | 3 |
| Helena | 14 | 8 | 22 | 20 | 2 | .. |
| Lincoln | 1 | 4 | 5 | ... | 5 | .. |
| Madison | 5 | 6 | 11 | 3 | 8 | .. |
| Meagher | 3 | 12 | 15 | 7 | 8 | .. |
| Missoula (Excl. of) | 3 | 7 | 10 | 4 | 6 | .. |
| Missoula City | 8 | 23 | 31 | 16 | 15 | .. |
| Musselshell | 16 | 15 | 31 | 6 | 25 | .. |
| Park (Excl. of) | ... | ... | ... | 3 | ... | 3 |
| Livingston.. .. | 9 | 7 | 16 | 3 | 13 | .. |
| Powell | 4 | 7 | 11 | 6 | 5 | .. |
| Ravalli | 8 | 10 | 18 | 15 | 3 | .. |
| Rosebud | 3 | 4 | 7 | 3 | 4 | .. |
| Sanders | 2 | 3 | 5 | 5 | ... | .. |
| Silver Bow (Excl. of) | 11 | 8 | 19 | 27 | ... | 8 |
| Butte | 44 | 49 | 93 | 61 | 32 | .. |
| Sweet Grass | 2 | 4 | 6 | 2 | 4 | .. |
| Teton | 9 | 10 | 19 | 15 | 4 | .. |
| Valley | 13 | 13 | 26 | 3 | 23 | .. |
| Yellowstone (Excl. of) | 10 | 4 | 14 | 6 | 8 | .. |
| Billings | 10 | 12 | 22 | 14 | 8 | .. |
| Blaine | 3 | 1 | 4 | 3 | 1 | .. |
| Big Horn | 1 | ... | 1 | ... | 1 | .. |
| Hill | 15 | 9 | 24 | 10 | 14 | .. |
| Sheridan | 5 | 10 | 15 | 9 | 6 | .. |
| Stillwater | 1 | 1 | 2 | ... | 2 | .. |
| TOTALS..... | 374 | 380 | 754 | 400 | 379 | 27 |

*Stillbirths, 20.

REPORT OF BACTERIOLOGICAL EXAMINATIONS
MADE DURING THE MONTH OF AUGUST, 1913,
BY E. STARZ, BACTERIOLOGIST,
HELENA, MONTANA.

August 1st:

Cerebrospinal fluid for Dr. Smith, Townsend, Mont. Found.
Diplococci meningitis intracellularis.

August 2nd:

Sputum for Bac. Tub. for Dr. L. Fligman, Helena, Mont.
Found: Positive.

August 5th:

Pus for Gonococci for Dr. W. C. Riddell, Helena, Mont.
Found: Positive.

Blood for Widal test for Dr. B. V. McCabe, Helena, Mont.
Found: Positive.

Swab from throat for Diphtheria for Dr. Peek, Helena, Mont.
Found: Bac. Diphtheria.

August 6th:

Blood for Widal test for Dr. I. Leighton, Boulder, Mont.
Found: Negative.

Pus for Bac. Tub. for Dr. B. V. McCabe, Helena, Mont.
Found: Negative.

Sputum for Bac. Tub. for Dr. S. A. Cooney, Helena, Mont.
Found: Negative.

Sputum for Bac. Tub. for Dr. C. C. Wallin, Lewistown,
Mont. Found: Negative.

August 7th:

Pus for Gonococci for Dr. Johnston, Helena, Mont. Found:
Negative.

Blood for Widal test for Dr. Curtis Wilder, Benchland,
Mont. Found: Negative.

August 8th:

Sputum for Bac. Tub. for Dr. A. L. Ward, Boulder, Mont.
Found: Negative.

August 10th:

Swab for Diphtheria for Dr. Melvin, Chester, Mont. Found:
Staphylococci.

August 11th:

Culture for Bac. Diphtheria for Dr. Melvin, Chester, Mont.
Found: Positive.

August 12th:

Sputum for Bac. Tuberc. for Dr. C. E. Whitehead, Logan,
Mont. Found: Negative.

Blood for Widal test for Dr. F. E. McCann, Salesville, Mont.
Found: Negative.

Pus for Gonococci for Dr. Stanley G. Reed, Big Timber,
Mont. Found: Negative.

August 13th:

Culture for Bac. Diphtheria for Dr. Movius, Billings, Mont.
Found: Negative.

August 14th:

Culture for Bac. Diphtheria for Dr. W. H. Melvin, Chester,
Mont. Found: Negative.

Pus for Gonococci for Dr. W. C. Riddell, Helena, Mont.
Found: Positive.

Sputum for Bac. Tub. for Dr. M. Dean, Helena, Mont.
Found: Positive.

August 16th:

Blood for Widal test for Dr. R. H. Beach, N. P. Hospital,
Glendive, Mont. Found: Positive.

August 18th:

Pus for Gonococci for Dr. C. S. Thompson, Helena, Mont.
Found: Negative.

August 19th:

Culture for Bac. Diphtheria for Dr. Peek, Helena, Mont.
Found: Negative.

Blood for Widal test for Dr. Max Barbour, Helena, Mont.
Found: Negative.

August 20th:

Sputum for Bac. Tub. for Dr. B. V. McCabe, Helena, Mont.
Found Negative.

August 21st:

Pus for Gonococci for Dr. C. S. Thompson, Helena, Mont.
Found: Positive.

August 22nd:

Two swabs for Diphtheria for Dr. D. J. Donohue, Glendive,
Mont. Found: (a) Positive; (b) Negative.

Blood for Widal test for Dr. C. C. Wallin, Lewistown, Mont.
Found: Negative.

Blood for Widal test for Dr. R. H. Beach, N. P. Hospital,
Glendive, Mont. Found: Positive.

Blood for Widal test for Dr. A. A. Husser, Hingham, Mont.
Found: Negative.

August 23rd:

Sputum for Bac. Tub. for Dr. H. F. Shrader, Brady, Mont.
Found: Negative.

Blood for Widal test for Dr. W. C. Riddell, Helena, Mont.
Found: Negative.

Sputum for Bac. Tub. for Dr. R. M. Wolfe, Big Timber,
Mont. Found: Negative.

August 25th:

Swab for Bac. Tub. for Dr. D. J. Donohue, Glendive, Mont.
Found: Positive.

August 26th:

Blood for Widal test for Dr. A. A. Husser, Hingham, Mont.
Found: Negative.

Culture for Diphtheria for Dr. H. H. Judd, Bozeman, Mont.
Found: Staphylococci only.

August 27th:

Sputum for Bac. Tub. for Dr. F. E. McCann, Salesville,
Mont. Found: None.

Pus for Gonococci for Dr. M. Dean, Helena, Mont. Found:
Negative.

August 28th:

Swab for Diphtheria for Dr. D. J. Donohue, Glendive, Mont.
Found: Streptococci.

August 29th:

Sputum for Bac. Tub. for Dr. S. K. Campbell, Harlowton,
Mont. Found: Positive.

Respectfully submitted,

EMIL STARZ, Bacteriologist.

Helena, Montana, September 4, 1913.

DIVISION OF FOODS AND DRUGS.

Dr. W. F. Cogswell, Secretary State Board of Health,
Food and Drug Commissioner.

F. J. O'Donnell, Inspector.

LABORATORY STAFF.

W. M. Cobleigh, Chemist.

C. E. Mollet, Director, Drug Analysis.

D. L. Weatherhead, Analyst.

D. B. Swingle, Bacteriologist.

Carl Gottschalck, Assistant Analyst.

Nina Armstrong, Clerk and Stenographer.

LABORATORY REPORT.

Samples Reported During the Month of August.

| Classification. | No. Legal. | No. Illegal. | Total. |
|-------------------------|------------|--------------|------------|
| Milk | 13 | 18 | 31 |
| Cream | .. | 1 | 1 |
| Unofficial | .. | .. | 18 |
| Water | .. | .. | 12 |
| Bottled Beverages | 33 | 19 | 52 |
| TOTAL | 46 | 38 | 144 |

One hundred fourteen samples were reported to the Secretary of the State Board of Health during the month of August. Of the official food samples, forty-six or fifty-four and eight-tenths percent were legal while thirty-eight or forty-five and two-tenths percent were illegal.

There were thirty-one samples of milk whose analysis could be used for official purposes, eighteen were adulterated while thirteen were standard or above. Five were below standard in fat; two below standard in solids, not fat; seven below standard in fat and in solids not fat; three below standard in solids not fat and contained formaldehyde, and one was below standard in fat and solids not fat and contained formaldehyde.

Twelve samples of water were reported. Chemical examinations were made of eight only, while both chemical and bacteriological examinations were made of four. Four were samples in a series of tests of the Livingston water supply; one was from a well in Bozeman; six were from Clyde Park and one was the railway water supply at Warren, Montana.

Fifty-two samples of soft drinks were analyzed. Thirty-three were legal while nineteen were illegal. Of the nineteen, thirteen contained saccharin.

Eighteen samples were reported the analyses of which were unofficial. A detailed report follows:

MILK AND CREAM.

Standard or Above.

MILK:

| Lab. No. | Date. | Obtained From. | Town. | Total Solids (%) | Solids Not Fat. | Fat. |
|-------------|---------|-------------------------------------|------------------|------------------------|-----------------------|------|
| 2227 | 8- 4-13 | A. Martini | Butte | 12.95 | 8.50 | 4.45 |
| 2278 | 8- 4-13 | Streff Bros. | Butte | 12.06 | 8.51 | 3.55 |
| 2287 | 8- 6-13 | E. D. Wolf & Son.... | Deer Lodge | 17.10 | 8.50 | 8.60 |
| 2289 | 8- 6-13 | P. Mollenberg | Deer Lodge | 14.41 | 8.71 | 5.70 |
| 2290 | 8- 6-13 | Interstate News Lunch Room | Deer Lodge | 13.83 | 8.68 | 4.95 |
| 2354 | 8-29-13 | J. J. Quinlan | Forsyth | | | 9.60 |
| 2355 | 8-29-13 | Mrs. T. Alexander | Forsyth | 13.17 | 8.77 | 4.40 |
| 2356 | 8-29-13 | A. H. Osborn | Forsyth | 13.23 | 8.53 | 4.70 |
| 2358 | 8-29-13 | John Albertson | Glendive | 12.34 | 8.74 | 3.60 |
| 2359 | 8-29-13 | H. F. Hilliard | Glendive..... | 13.22 | 8.93 | 4.30 |
| 2360 | 8-29-13 | Hattie E. Blinco | Glendive | 13.45 | 8.50 | 4.95 |
| 2366 | 8-29-13 | Sam Ellsworth | Glasgow | 13.64 | 8.74 | 4.90 |
| 2371 | 8-29-13 | C. H. Shaver Cafe..... | Glasgow | 13.40 | 8.60 | 4.80 |

MILK AND CREAM.

Below Standard.

MILK:

| Lab. No. | Date. | Obtained From. | Town. | Remarks. |
|----------|---------|------------------------------------|-------------|---|
| 2259 | 8- 1-13 | Kong Fann & Co. | Havre..... | Low in fat. |
| 2269 | 8- 4-13 | Hong Kong | Butte..... | Low in solids not fat, contains formaldehyde. |
| 2270 | 8- 4-13 | J. P. Riley | Butte..... | Low in fat, and solids not fat. |
| 2273 | 8- 4-13 | Alex Saros | Butte..... | Low in fat, and solids not fat. |
| 2274 | 8- 4-13 | Louis Rorris | Butte..... | Low in fat, and solids not fat. |
| 2275 | 8- 4-13 | Buller Bros. | Butte..... | Low in fat, and solids not fat and contains formaldehyde. |
| 2276 | 8- 4-13 | Geo. Castro | Butte..... | Low in solids not fat, contains formaldehyde. |
| 2279 | 8- 4-13 | Striff Bros. | Butte..... | Low in fat, and solids not fat. |
| 2280 | 8- 4-13 | Mose Vanina | Butte..... | Low in solids not fat and contains formaldehyde. |
| 2285 | 8- 6-13 | E. DeAlton | | |
| 2286 | 8- 6-13 | Deer Lodge Hotel Dining Room | Deer Lodge | Low in solids not fat. |
| 2288 | 8- 6-13 | Eagle Cafe | Deer Lodge | Low in fat. |
| 2357 | 8-29-13 | F. E. Burkholder | Forsyth.... | Low in fat. |
| 2361 | 8-29-13 | J. Kotake | | Low in fat and solids not fat. |
| 2362 | 8-29-13 | L. W. Arthur | Glendive... | Low in fat. |
| 2369 | 8-29-13 | D. L. Gillespie | Glendive... | Low in fat and solids not fat. |
| 2374 | 8-29-13 | O. K. Cafe | Glasgow.... | Low in fat. |
| 2375 | 8-29-13 | City Cafe | Glasgow.... | Low in solids not fat. |
| | | | Glasgow.... | Low in fat and solids not fat. |

CREAM:

| | | | | |
|------|---------|---------------------|------------|---------------------------------------|
| 2272 | 8- 4-13 | G. W. Bullett | Butte..... | Low in fat and contains formaldehyde. |
|------|---------|---------------------|------------|---------------------------------------|

WATER ANALYSIS.
Parts Per Million.

| Lab. No..... | Date..... | Description. | Free Ammonia.... | Albumoid Ammonia.... | Nitrogen as— Nitrite..... | Nitrogen as— Nitrate..... | Oxygen Consumed... | Chloride..... | E. Coli. |
|--------------|-----------|---|---------------------|-------------------------|------------------------------|------------------------------|-----------------------|---------------|---------------|
| 2256 | 8- 1-13 | From railroad water tank, Warren, Mont. | 0.018 | 0.04 | Trace | 0.34 | 1.25 | 1.02 | None in 3 Cc. |
| 2263 | 8- 1-13 | From stream at site of proposed future water supply for Clyde Park. | 0.03 | 0.064 | Trace | 0.1 | 0.7 | None | |
| 2264 | 8- 1-13 | Water from a spring at Clyde Park | 0.041 | 0.048 | None | 0.54 | 0.85 | 5.09 | None in 3 Cc. |
| 2265 | 8- 1-13 | From stream at Clyde Park, Mont. | 0.06 | 0.072 | 0.001 | 0.54 | 0.85 | 5.09 | None in 3 Cc. |
| 2266 | 8- 1-13 | From dug well, Clyde Park | 0.021 | 0.074 | None | 0.54 | 0.70 | 27.5 | |
| 2267 | 8- 1-13 | From driven wall, Clyde Park | 0.021 | 0.096 | Trace | 0.8 | 0.85 | 28.5 | |
| 2268 | 8- 1-13 | From dug well, Clyde Park | 0.0176 | 0.052 | Trace | 2.8 | 0.6 | 52.9 | |
| 2293 | 8-16-13 | From Yellowstone river. Livingston, water supply | 0.076 | 0.177 | Trace | Trace | 3.45 | 6.11 | |
| 2294 | 8-16-13 | From well, Livingston city water supply .. | 0.032 | 0.10 | None | None | 1.3 | 6.11 | |
| 2349 | 8-22-13 | Private well, Bozeman, Mont. | 0.032 | 0.06 | 0.002 | 0.3 | 1.65 | 1.5 | None in 3 Cc. |
| 2377 | 8-28-13 | From Yellowstone river, Livingston, city water supply | 0.013 | 0.026 | None | None | 2.5 | 4.1 | |
| 2378 | 8-28-13 | From well, Livingston city water supply .. | 0.024 | 0.047 | None | None | 0.9 | 6.11 | |

BOTTLED BEVERAGES:

| Lab. No. | Date. | Description. | Remarks. |
|----------|---------|--|--|
| 2295 | 8-30-13 | Strawberry Soda. On label: Great Falls Bottling works, Strawberry Artificial color and flavor | Short in volume, 11.8 ozs. Sold as one pint. Otherwise normal. |
| 2296 | 8-30-13 | Cream Soda. On label: Delicious Cream Soda. Colored and flavored | Short in volume, 12.1 ozs. Sold as one pint. Otherwise normal. |
| 2297 | 8-30-13 | Ginger Ale. On label: Golf Ginger Ale, the Best of All. Artificial color and flavor.. | Short in volume, 11.7 ozs. Sold as one pint. Otherwise normal. |
| 2298 | 8-30-13 | Root Beer. On label: Root Beer. Artificial color and flavor | Short in volume, 12.3 ozs. Sold as one pint. Otherwise normal. |
| 2299 | 8-30-13 | Lemon Soda. On label: Sparkling Lemon Soda, artificial color and flavor | Short in volume, 12.5 ozs. Sold as one pint. Otherwise normal. |
| 2300 | 8-30-13 | Seltzer Water. On label: Artificial Diamond Rock Mineral. A refreshing beverage excellent for mixing with wines and liquors. Bottled for bar and family use. | Short in volume, 11.8 ozs. Sold as one pint. Otherwise normal. |
| 2301 | 8-30-13 | Cream Soda. On label: Cream Soda bottled by Chas. Gies, Great Falls, Mont. Artificial color and flavor | Short in volume, 11.8 ozs. Sold as one pint. Otherwise normal. |
| 2302 | 8-30-13 | Raspberry Soda. On label: Raspberry, bottled by Chas. Gies, Great Falls, Mont., Artificial color and flavor.. | Short in volume, 11.8 ozs. Sold as one pint. Otherwise normal. |
| 2303 | 8-30-13 | Strawberry Soda. On label: Strawberry. Bottled by Chas. Gies, Great Falls, artificial color and flavor | Short in volume, 11.7 ozs. Sold as one pint. Otherwise normal. |
| 2304 | 8-30-13 | Lemon Soda. On label: Lemon Soda. Bottled by Chas. Gies, Great Falls, Mont. Artificial color and flavor.. | Short in volume, 11.2 ozs. Sold as one pint. Otherwise normal. |
| 2305 | 8-30-13 | Ginger Ale. On label: Ginger Ale bottled by Chas. Gies. Artificial color and flavor.. | Short in volume, 11.5 ozs. Sold as one pint. Otherwise normal. |
| 2306 | 8-30-13 | Root Beer. On label: Hires, Chas. Gies, Great Falls, Mont. | Short in volume, 11.8 ozs. Sold as one pint. Otherwise normal. |
| 2307 | 8-30-13 | Lemon Soda. On label: Lemon Soda. Artificial color and flavor. Bottled by St. Louis Bottling works, Great Falls, Nick Baatz, Propr. | Short in volume, 11.5 ozs. Sold as one pint. Otherwise normal. |
| 2308 | 8-30-13 | Root Beer. On label: Artificial flavor and color. Bottled by the St. Louis Bottling works, Great Falls, Mont. Nick Baatz, Propr. | Short in volume, 11.8 ozs. Sold as one pint. Contains saccharin. |
| 2309 | 8-30-13 | Ginger Ale. On label: Ginger Ale, colored and flavored. Bottled by the St. Louis Bottling Works, Great Falls, Mont. Nick Baatz, Propr. | Short in volume, 11.1 ozs. Sold as one pint. Contains saccharin. |
| 2310 | 8-30-13 | Cream Soda. On label: Cream Soda, artificial flavor and color. Bottled by the St. Louis Bottling Works, Great Falls, Mont. Nick Baatz, Propr. | Short in volume, 11.8 ozs. Sold as one pint. Contains saccharin. |
| 2311 | 8-30-13 | Raspberry Soda. Artificial color and flavor | Capacity 12.2 ozs. Contains saccharin. |
| 2312 | 8-30-13 | Strawberry Soda. On label: Artificial color and flavor. Bottled by St. Louis, Bottling Works, Nick Baatz, Propr, Great Falls, Mont. | Short in volume, 11.8 ozs. Sold as one pint. Contains saccharin. |

BOTTLED BEVERAGES:

| Lab. No. | Date. | Description. | Remarks. |
|----------|---------|---|--|
| 2313 | 8-30-13 | Iron Brew. On label: Special Brew, colored, non-alcoholic. Northwestern Bottling Works, Butte, Mont. | Capacity 8.5 ozs. Complies with the standard. |
| 2314 | 8-30-13 | Strawberry Soda. On label: True Fruit, Strawberry. Northwestern Bottling Works, Butte, Mont. | Capacity 8.5 ozs. Misbranded. Contains artificial color, and the fact is not stated on the label. |
| 2315 | 8-30-13 | Lemon Soda. On label: Lemon Soda flavored. Northwestern Bottling Works, Butte, Mont. | Capacity 11.2 ozs. Complies with the standard. |
| 2316 | 8-30-13 | Ginger Ale. On label: Hyball Ginger Ale. Northwestern Bottling Works, Butte, Mont. Artificial color and flavor. | Capacity 11.8 ozs. Complies with the standard. |
| 2317 | 8-30-13 | Cream Soda. On label: Delicious Cream Soda. Northwestern Bottling Works, Butte, Mont. | Capacity 8.5 ozs. Complies with the standard. |
| 2318 | 8-30-13 | Sarsaparilla. On label: Sarsaparilla. Northwestern Bottling Co., Butte, Mont. .. | Capacity 8.1 ozs. Complies with the standard. |
| 2320 | 8-30-13 | Lemon Sour. On label: Northwestern Bottling Works, Butte, Mont. | Contains an artificial color, the presence of which is not stated on the label. Capacity 8.1 ozs. |
| 2322 | 8-30-13 | Raspberry Sirup. On label, Pure Raspberry Sirup. Northwestern Bottling Works, Butte, Mont. | Capacity 24.5 ozs. Artificially colored which fact is not declared on the label. |
| 2323 | 8-30-13 | Lemon Soda. On label: Holland Rink Bottling Works, Butte, Mont. | Capacity 7.6 ozs. Complies with the standard. |
| 2324 | 8-30-13 | Cream Soda. On label: Holland Rink Bottling Works, Butte, Mont. | Capacity 11.2 ozs. Complies with the standard. |
| 2325 | 8-30-13 | Strawberry Soda. On label: Holland Rink Bottling Works, Butte, Mont. | Capacity 7.6 ozs. Artificially colored, which fact is not declared on the label. |
| 2326 | 8-30-13 | Root Beer. On label: Holland Rink Bottling Works, Butte, Mont. | Capacity 7.8 ozs. Complies with the standard. |
| 2327 | 8-30-13 | Water. On label: Deep Rock Natural Spring Water | Capacity 25.4 ozs. Complies with the standard. |
| 2328 | 8-30-13 | Iron Beer. On label: Iron Beer—Refreshing, Non-alcoholic, manufactured by the Lehaman Rosenfeld Co., Cincinnati, Ohio. Bottled by the Holland Rink Bottling Works, Butte, Mont. | Capacity 25.4 ozs. Complies with the standard. |
| 2329 | 8-30-13 | Ginger Ale. On label: Aromatic Ginger Ale. Artificially colored and flavored .. | Capacity 25.2 ozs. Misbranded. Contains the word aromatic, while the product has no aromatic properties, not usual to ordinary ginger ale. |
| 2331 | 8-30-13 | Lemon Soda. On label: Keenan Mfg. Co., Butte, Mont. | Capacity 7.4 ozs. Contains saccharin. |
| 2333 | 8-30-13 | Cream Soda. On label: Keenan Mfg. Co., Butte, Mont. | Capacity 7.4 ozs. Contains saccharin. |
| 2334 | 8-30-13 | Root Beer. On label: Holland Rink Bottling Works, Butte, Mont. | Capacity 7.4 ozs. Contains saccharin. |

BOTTLED BEVERAGES:

| Lab. No. | Date. | Description. | Remarks. |
|----------|---------|--|---|
| 2335 | 8-30-13 | Grape Soda. On label: Hol- land Rink Bottling Works, Butte, Mont. | Capacity 7.4 ozs. Contains saccharin. |
| 2336 | 8-30-13 | Pine Apple Soda. On label: Keenan Mfg. Co. | Capacity 7.4 ozs. Contains saccharin. |
| 2337 | 8-30-13 | Root Beer. On label: Rocky Mountain Bottling Works, Butte, Mont. Artificially colored and flavored | Capacity 7.8 ozs. Complies with standard. |
| 2338 | 8-30-13 | Strawberry Soda. On label: Rocky Mountain Bottling Works, Butte, Mont. Strawberry artificially col- ored and flavored | Capacity 7.9 ozs. Complies with standard. |
| 2339 | 8-30-13 | Coco Cola. On label Coco Cola | Capacity 7.3 ozs. Complies with the standard. |
| 2340 | 8-30-13 | Ginger Ale. On label: Rocky Mountain Bottling Works, Butte, Montana. | Capacity 7.8 ozs. Complies with the standard. |
| 2341 | 8-30-13 | Lemon Soda. On label: Rocky Mountain Bottling Works, Butte, Montana. | Capacity 7.4 ozs. Complies with the standard. |
| 2342 | 8-30-13 | Cream Soda. On label: Rocky Mountain Bottling Works, Butte, Mont. | Capacity 7.1 ozs. Complies with the standard. |
| 2343 | 8-30-13 | Iron Brew. On label: Rocky Mountain Bottling Works, Butte, Mont. | Capacity 7.4 ozs. Contains saccharin. |
| 2344 | 8-30-13 | Sarsaparilla. On label: Rocky Mountain Bottling Works, Butte, Mont. | Capacity 6.9 ozs. Contains saccharin. |
| 2346 | 8-30-13 | Mineral Water. On label: Ex- tra fine sparkling Mineral Water | Capacity 22.3 ozs. Complies with the standard. |
| 2350 | 8-30-13 | Cream Soda. On label: Eureka Bottling Works, Billings, Mont., artificially colored and flavored | Short in volume, 7.9 ozs. Sold as one pint. Other- wise normal. |
| 2351 | 8-30-13 | Strawberry. On label: Eureka Bottling Works, Billings, Mont. Artificial color and flavor | Short in volume, 7.9 ozs. Sold as one pint. Other- wise normal. |
| 2352 | 8-30-13 | Root Beer. On label: Eureka Bottling Works, Billings, Mont. Artificial color and flavor | Short in volume, 7.6 ozs. Sold as one pint. Other- wise normal. |
| 2353 | 8-30-13 | Lemon Soda. On label: Eu- reka Bottling Works, Bil- lings, Mont. | Short in volume, 7.6 ozs. Sold as one pint. Other- wise normal. |
| 2332 | 8-30-13 | Strawberry Soda. On label: Keenan Mfg. Co., Butte, Mont. | Capacity 7.4 ozs. contains saccharin. |

Inquiries relative to the attitude of the Board of Health toward some questions were received. The following rulings were given:

WITH RESPECT TO THE USE OF CEREAL IN SAUSAGE.

The following paragraph from the 'Rules and Regulations of the Montana State Board of Health' is cited.

"Sausage or sausage meat shall be held to be a comminuted meat from meat cattle or swine, or a mixture of such meats, either fresh, salted, pickled or smoked, with added salt and spice and with or without the addition of edible animal fats, blood and sugar, or subsequent smoking. It shall contain no larger amount of water than the meats from which it is prepared, contain when in their fresh condition, and if it bears a name descriptive of kind, composition, or origin, it must correspond to such descriptive name. All animal tissues used as containers, such as castings, stomachs, etc., must be clean and sound and impart to the content no other substance than salt. All sausage found to contain any cereal or added water or other substance except as herein stated shall be deemed to be adulterated."

The use of cereal in sausage is therefore, seen to be prohibited.

WITH RESPECT TO THE USE OF PICKLING SUBSTANCES IN CURING MEATS.

The following paragraph from the Montana Food and Drug Act is cited:

"An article shall be deemed adulterated * * * if it contains any added antiseptic or preservative substance except common salt, salt peter, cane sugar, beet sugar, vinegar, spices or in smoked foods the natural products of the smoking process, or other harmless preservatives whose use is authorized by the State Board of Health, and no preservative shall be used in greater quantity than the rules and regulations of the State Board of Health, shall designate.

By the Rules and Regulations of the State Board of Health, made pursuant to the Food and Drug Act the use of Sodium benzoate is permitted, provided each container or package is plainly labeled to show the presence and amount.

WITH RESPECT TO THE LABELING OF OLIVE OIL,
"SWEET OIL."

Food Inspection Decision No. 139, of the U. S. Department of Agriculture, states that oil labeled, "Sweet Oil" must be pure olive oil. The dictionary defines "Sweet Oil" as olive oil. It is therefore all right to label olive oil, "Sweet Oil." It would be well to add somewhere on the label that it is composed of pure olive oil.

6217 6218 6219

617 618 619

